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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,939	07/31/2003	Mitsuaki Osame	12732-161001	1228
26171	7590	07/14/2005	EXAMINER	
FISH & RICHARDSON P.C. P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022			VU, DAVID HUNG	
			ART UNIT	PAPER NUMBER
			2828	
DATE MAILED: 07/14/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/630,939

Applicant(s)

OSAME ET AL.

Examiner

David Vu

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am

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 7-12 and 19-35 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 7-12 and 19-35 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: ____.

DETAILED ACTION

Allowance of the claims has been withdrawn in light of newly applied prior arts.

Drawings

1. Figures 5A-5B should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 10-12, 27-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 10-11, the recitation "...a power source for fixing an electric potential output to the source line..." renders the claim unclear as to what applicant's trying to claim since the function of the power source is only for supplying power to the source

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line, not for fixing an electrical potential output. Similar claim language is also recited for the first and second power sources.

Note that such "fixing" scheme by the power source is also not explained anywhere in the specification. Applicant should details how the power source can "fix" an electric potential output so as to more clearly define the claimed subject matter.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 7-12 and 21-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Koyama, U.S. Pat No 6,760,004.

Regarding claims 7-8, 10-11 Koyama discloses the claimed invention including a source line driving circuit 100; a first pixel comprising a first source line S1 and a first power source line V1; and a second pixel comprising a second source line S2 and a second power source line V2, wherein a last stage 104 of the source line driving circuit is electrically connected to the first source line and the second source line, wherein inherently a first power source is electrically connected to both the last stage and the first power source line, and wherein inherently a second power source electrically

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connected to both the last stage and the second power source line, see, for example, figures 1-2, 4, column 2, lines 62+, column 3, lines 1-16, column 4, lines 10-19, column 6, lines 19-22, column 8, lines 25-27. Note that in a circuit all components are electrically connected together.

Regarding claims 9,12, inherently the power sources supply different or the same power so as to adjust brightness of each pixel.

Regarding claims 21-28, columns 27-28 discloses limitations, e.g., matrix light emitting device, video camera, digital camera etc, as claimed.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koyama in view of Yamazaki et al (herein after Yamazaki), U.S. Pub. No 2002/0018060.

Koyama as discussed from the above, essentially disclose the claimed invention but fail to explicitly disclose the last stage includes at least a level shifter. Yamazaki discloses a light emitting device with a level shifter circuit in the last stage, i.e., the stage after amplification (figure 3). It would have been obvious to one having ordinary skill in the art at the time of applicant's claimed invention was made to have provided the

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Koyama reference with the level shifter so as to regulate the output to the source signal lines; thus, data signals would have been stabilized.

8. Claims 29-30 and 32-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koyama in view of Chimura, U.S. Pub. No 2005/0012704.

Koyama as discussed from the above, essentially disclose the claimed invention including first TFT in the pixel portion (figures 3-4); a gate line driving circuit inherently connected to gate signal lines G1. Koyama fails to explicitly disclose the source line driving circuit comprising a second TFT connected to the source line. Chimura discloses source line driving circuit 12002 comprising a second TFT connected to the source line 12007 (figure 12, paragraph [005]). It would have been obvious to one having ordinary skill in the art at the time of applicant's claimed invention was made to have provided the Koyama reference with the source line driving circuit having a second TFT connected to the source line; thus, data signals supplied to the pixels would have been turned on or off.

Claims 32-35, columns 27-28 of the Koyama reference discloses limitations, e.g., active matrix light emitting device, video camera, digital camera etc, as claimed.

9. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koyama and Chimura in view of Yamazaki.

Koyama and Chimura as discussed from the above, essentially disclose the claimed invention but fail to explicitly disclose the last stage includes at least a level shifter. Yamazaki discloses a light emitting device with a level shifter circuit in the last stage, i.e., the stage after amplification (figure 3). It would have been obvious to one

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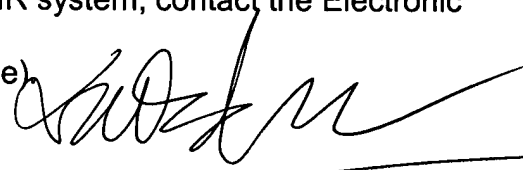
having ordinary skill in the art at the time of applicant's claimed invention was made to have provided the Koyama and Chimura combination with the level shifter so as to regulate the output to the source signal lines; thus, data signals would have been stabilized.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Vu whose telephone number is (571) 272-1831. The examiner can normally be reached on M-F 8am-430pm.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


David Vu
Primary Examiner
Art Unit 2828

dv